SEQUENCE LISTING

SEQ 1: *Arabidopsis thaliana GAD1*

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1     atggtgctct cccacgccgt atcggagtcg gacgtctccg tccactccac attcgcatca
61    cgttacgtcc gtacttcact tcctaggttc aagatgccgg aaaactcgat tcctaaggaa
121   gcggcgtatc agatcatcaa cgacgagctg atgcttgacg ggaatccacg gttgaactta
181   gcctcctttg tgacgacatg gatggagcct gagtgtgata aactcatcat gtcctccatc
241   aacaagaact atgttgacat ggacgagtac cccgtcacca ccgaacttca gaaccgatgt
301   gtgaacatga ttgcacatct attcaatgca ccgttagaag aggcggagac cgccgtcgga
361   gtaggaaccg ttggatcatc ggaggccata atgttggccg gtttggcctt caagcgtaaa
421   tggcagaaca agcgcaaagc tgaaggcaaa cccgtcgata aacccaacat tgtcaccgga
481   gccaatgttc aagtgtgttg ggagaaattc gctaggtact ttgaggttga acttaaggaa
541   gtgaaattga gtgaaggata ctatgtgatg gaccctcaac aagctgttga tatggttgat
601   gagaacacca tttgtgttgc ggacattctt ggttccactc ttaatggcaga attcgaagat
661   gttaaactct tgaacgatct cttggtcgaa aagaacaaag aaaccggatg ggatacacca
721   atccacgtcg atgcggcaag tggaggattc attgcaccgt tttgtatcc ggaattggaa
781   tgggacttta gacttccctt ggtgaagagt atcaatgtga gtggtcacaa gtatggactt
841   gtgtacgcag ggattggttg ggtgatctgg agaaacaaag aggatttgcc tgaggaactc
901   atcttccata tcaattatct tggtgctgac caacccacct ttactctcaa tttctccaaa
961   ggttcaagtc aagtcattgc tcaatactac caacttatcc gattgggcca cgagggttac
1021  agaaatgtga tggagaattg cagagagaat atgatcgtcc taagggaagg acttgagaag
1081  acagaaaggt tcaacatcgt ctcaaaggac gagggagtgc cacttgtcgc ttttctcttg
1141  aaagatagca gctgtcacac tgagttcgaa atctccgaca tgcttcgcag gtatggatgg
1201  atagtgccgg cctacacaat gcctccaaat gcacaacaca tcactgttct tcgtgtggtt
1261  atcagagaag atttctcgag aacactcgct gagagacttg tgatcgatat agagaaagtg
1321  atgcgtgagc tcgatgagct tccttcgaga gtgattcaca aatatcact tggacaagag
1381  aagatgaat ctaacagcga taacttgatg gtcacggtga agaagagcga tatcgacaag
1441  cagagagata tcatcactgg ctggaagaag tttgtcgccg acaggaagaa gacgagtggt
1501  atctgctaa
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SEQ2: *Arabidopsis thaliana* GAD1

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MVLSHAVSESDVSVHSTFASRYVRTSLPRFKMPENSIPKEAAYQIINDELMLDGNPRLNLASFVTTWME
PECDKLIMSSINKNYVDMDEYPVTTELQNRCVNMIAHLFNAPLEEAETAVGVGTVGSSEAIMLAGLAFK
RKWQNKRKAEGKPVDKPNIVTGANVQVCWEKFARYFEVELKEVKLSEGYYVMDPQQAVDMVDENTICVA
DILGSTLNGEFEDVKLLNDLLVEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRLPLVKSINVSGH
KYGLVYAGIGWVIWRNKEDLPEELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGHEGYRNVME
NCRENMIVLREGLEKTERFNIVSKDEGVPLVAFSLKDSSCHTEFEISDMLRRYGWIVPAYTMPPNAQHI
TVLRVVIREDFSRTLAERLVIDIEKVMRELDELPSRVIHKISLGQEKSESNSDNLMVTVKKSDIDKQRD
IITGWKKFVADRKKTSGIC
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SEQ 3: *Arabidopsis thaliana GAD2*

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1     ctaaacagaa acaaagatgg ttttgacaaa aaccgcaacg aatgatgaat ctgtctgcac
61    catgttcgga tctcgctatg ttcgcactac acttcccaag tatgagattg gtgagaattc
121   gataccgaaa gacgctgcat atcagatcat aaaaagatgag ctgatgcttg atggtaaccc
181   gaggcttaac ctagcttcgt ttgtgactac atggatggaa ccagagtgtg acaaatcat
241   catggactct atcaacaaga actacgttga tatggatgag taccctgtca caactgagct
301   ccagaaccga tgtgtaaaca ttatagctcg actgttcaat gcgccactcg aggaatctga
361   gacggcggtg ggagtaggga cagttggttc ttcagaagcc atcatgttag ccggattggc
421   cttcaaaaga aaatggcaga acaaacgcaa ggctgagggt aaaccctatg acaaacccaa
481   cattgtcact ggagccaatg ttcaagtttg ctgggagaaa ttcgctcggt acttcgaggt
541   ggagctaaag gaagtaaaac taagtgaagg ttactacgtg atggatccag acaaagcagc
601   agaaatggta gacgagaaca caatctgtgt cgcagccata ttgggatcca cactcaacgg
661   tgagttcgaa gacgtgaaac gtctccaatga cttgctagtc aagaaaaacg aggagactgg
721   ttggaacaca ccgatccacg tggatgcagc aagtggaggg ttcatagctc cgtttatcta
781   tcctgaatta gaatggggact ttagacttcc tttggttaag agtatcaacg tgagtggtca
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1

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841   caagtatgga ctggtctatg ctggtattgg ttgggtcgtg tggagggcag cagaggattt
901   gcctgaagag cttatctttc atattaatta tcttggtgct gatcaacccg ctttcactct
961   caatttctcc aagggatcga gccaaattat tgctcaatac taccagctca ttcgtcttgg
1021  attcgaggag tacaaaaatg tgatggagaa ttgcatagag aacatggtgg ttctcaaaga
1081  agggatagag aaaacagagc gtttcaacat agtctcaaag gaccaaggag tgccagtcgt
1141  agccttctct ctcaaggacc atagtttcca caacgagttc gagatctctg agatgctacg
1201  tcgtttttggc tggatcgtcc cagcttacac tatgcctgcc gatgcacagc acatcacggt
1261  tctgcgtgtt gtcatcaggg aagatttctc aagaacactc gcggagagac ttgttgctga
1321  tatttcgaag gtgcttcatg agctagatac cttgccttcc aagatatcta agaagatggg
1381  aatagaaggg atcgcggaaa atgtaaagga gaagaagatg gagaaggaga ttctgatgga
1441  agttattgtt ggatggagga agtttgtgaa ggagaggaag aagatgaatg gtgtgtgcta
1501  agcaagtgtg ttgcctttgt gtggaaatga agaggtactt gcgaggactt tgcgtttatc
1561  agtttatgtg tttgtatatc tatttgatcc agttattatg gattatatac gcttgaaact
1621  catttttaagc cattgttatt gaacgtttat caaatacttt attat
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SEQ 4: *Arabidopsis thaliana* GAD2

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MVLTKTATNDESVCTMFGSRYVRTTLPKYEIGENSIPKDAAYQIIKDELMLDGNPRLNLASFVTTWMEP

ECDKLIMDSINKNYVDMDEYPVTTELQNRCVNIIARLFNAPLEESETAVGVGTVGSSEAIMLAGLAFKR

KWQNKRKAEGKPYDKPNIVTGANVQVCWEKFARYFEVELKEVNLSEGYVMDPDKAAEMVDENTICVAA

ILGSTLNGEFEDVKRLNDLLVKKNEETGWNTPIHVDAASGGFIAPFIYPELEWDFRLPLVKSINVSGHK

YGLVYAGIGWVVWRAAEDLPEELIFHINYLGADQPTFTLNFSKGSSQIIAQYYQLIRLGFEGYKNVMEN

CIENMVVLKEGIEKTERFNIVSKDQGVPVVAFSLKDHSFHNEFEISEMLRRFGWIVPAYTMPADAQHIT

VLRVVIREDFSRTLAERLVADISKVLHELDTLPSKISKKMGIEGIAENVKEKKMEKEILMEVIVGWRKF

VKERKKMNGVC
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SEQ 5: *Arabidopsis thaliana* GAD3

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ATGGTTTTATCTAAGACAGCTTCCAAATCCGATGATTCAATCCATTCAACTTTTGCTTCCCGTTATGTC
CGCAACTCTATCTCACGGTAAGAAGTTGAAACACAATTTTATTTTGTTTAATGTTTTCATTGGTAACTA
GAGTTCTAAAACTTAGCCTAGACGACGATACACAGCATCTTGATTCTAGATTCAATATTTATTACAGAA
ATATTTATTTTTAATATACGATATAGTTCCAGATTTTAATTTTTGGGTACATAAGAAAGAATACTAGAT
TCTAACGAAATTAACCACTTGCACTGAAAGATCCGAGCATAATGTGTGTTTACTATATAAGAGGTATTTT
CTTTTTTAATCTTAAGCTAAATATATCAATTTTTCATCAGATTCGAAATACCTAAGAACTCGATCCCTA
AGGAAGCAGCATACCAAATCATCAACGACGAGCTCAAGTTTGACGGTAACCCGAGGCTAAACCTGGCCT
CCTTTGTGACCACTTGGATGGAGCCAGAATGTGACAAGCTCATGATGGAATCCATCAACAAGAACAACG
TTGAGATGGACCAATACCCTGTTACCACCGACCTTCAGAATCGATGCGTTAACATGATTGCGCGTCTCT
TCAACGCGCCTTTAGGTGACGGTGAAGCCGCCATTGGTGTTGGCACGGTGGGGTCATCGGAGGCAGTGA
TGTTGGCCGGACTGGCCTTTAAGAGACAGTGGCAGAACAAGCGTAAGGCCCTAGGGCTGCCTTATGATA
GACCTAATATTGTAACCGGAGCCAATATTCAGGTAAACCAAAACAAAAATTGATTAAATTTTAAACCGG
TTTAGGTCTATGTTTACATTGACTCAATTTCCGGTTCAATACAGGTTTGCTTGGAGAAATTTGCAAGGT
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AAGACGTTAAGCTCCTCAACGACCTTTTAGTCGAGAAAAACAAGAAAACCGGGTAATTGAATCAAAACC
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TAGAAATATTTTATTTTTTGAATGAATATAAAACTTATTAACCAAAACAAAACCCATATATGTTTACATT
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TTTATAATGTGAGATATTCAAGCATTCTAATATCAAACCGATAAACAACAACAAACTGATTATTAATTT
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GTGGTGGGTTTATTGCTCCCTTCTTGTATCCGGACTTGGAGTGGGATTTCCGGTTACCGTTGGTTAAGA
GCATAAATGTAGGTGGTCACAAATACGGTTTGGTTTACGCCGGTATCGGTTGGGTCGTATGGAGAACCA
AAACCGATTTGCCTGATGAACTTATCTTCCATATCAATTATCTTGGAGCTGATCAACCCACATTTACCC
TCAACTTCTCTAAAGGTACATTACCATATCTTATGTAAAGTTTAGATATATTTATAGATTAATGTTTTG
TTAATTCTTGTATATTACCAGGGTCAAGTCAAGTGATTGCTCAGTACTACCAGTTGATTCGTCTTGGAT
TCGAGGTAAATAATAACTCAATAAAGAAACTAAAACGTTACTAAATCCAATCGTATACGTACTAGTATA
ATATACAAGTTGTTACTATACTTTATGCACTACAAAAGTTCAAAACCAAGAATGTACTAAATACATTCCA
TAAGATTAAACGTTCCTAAATTGACAAGTTTTGGTTTTGTAGAATAGCTAATAATCTTTTTGTTTGGTT
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TAGGGATATCGCAACGTGATGGATAATTGCCGCGAGAACATGATGGTACTAAGACAAGGATTAGAGAAA
ACGGGACGTTTTAACATCGTCTCCAAAGAAAACGGTGTTCCGTTAGTGGCGTTTTCTCTCAAAGATAGT
AGCCGCCCACAACGAGTTCGAGGTGGCCGAAATGCTTCGTCGCTTCGGCTGGATCGTTCCGGCCTACACG
ATGCCTGCGGATGCGCAACATGTCACGGTCCTTCGAGTTGTTATCCGAGAAGATTTCTCTCGAACCTTA
GCTGAGAGATTGGTAGCCGATTTCGAGAAGGTTCTACACGAGCTCGATACGCTTCCCGCGAGGGTTCAC
GCCAAGATGGCTAGTGGAAAAGTTAACGGTGTTAAGAAGACGCCAGAGGAGACGCAAAGAGAAGTCACG
GCCTACTGGAAGAAGTTTGTGGACACTAAGACTGACAAGAACGGCGTTCCGTTAGTAGCAAGTATTACC
AATCAATGA

SEQ 6: Arabidopsis thaliana GAD3

MVLSKTASKSDDSIHSTFASRYVRNSISRFEIPKNSIPKEAAYQIINDELKFDGNPRLNLASFVTTWME
PECDKLMMESINKNNVEMDQYPVTTDLQNRCVNMIARLFNAPLGDGEAAIGVGTVGSSEAVMLAGLAFK
RQWQNKRKALGLPYDRPNIVTGANIQVCLEKPARYFEVELKEVKLREGYYVMDPDKAVEMVDENTICVV
AILGSTLTGEFEDVKLLNDLLVEKNKKTGWDTPIHVDAASGGFIAPFLYPDLEWDFRLPLVKSINVSGH
KYGLVYAGIGWVVWRTKTDLPDELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGFEGYRNVMD
NCRENMMVLRQGLEKTGRFNIVSKENGVPLVAFSLKDSSRHNEFEVAEMLRRFGWIVPAYTMPADAQHV
TVLRVVIREDFSRTLAERLVADFEKVLHELDTLPARVHAKMASGKVNGVKKTPEETQREVTAYWKKFVD
TKTDKNGVPLVASITNQ

SEQ 7: Arabidopsis thaliana GAD4

ATGGTTTTGTCTAAGACAGTTTCCGAATCTGATGTCTCAATCCATTCAACTTTTGCTTCTCGTTACGTC
CGCCAACTCTCTTCCACGGTAACAACTTGTAACACAAATCTTTTGTCTAATGTTTTCGTCAACAATAGTA
ACATGTAATGATGTAAACCTTGGATAGTTTTTTTTTTTGGCCGTGGTTAATGTTGTAGATTTATTATGTG
TTATATACTATAAGGAAGGACATGTTTCGTTATTTTAACTTAATGTATCATCATTTCATCATTAGATTC
GAAATGCCTGAGAACTCAATCCCAAAAGAAGCAGCTTACCAAATCATCAACGACGAGCTAATGCTCGAT
GGTAACCCAAGGCTGAACCTAGCTTCCTTCGTGACCACATGGATGGAGCCAGAATGTGACAAGCTCATG
ATGGAGTCCATCAACAAGAACTACGTCGACATGGACGAGTACCCTGTCACCACTGAGCTTCAGAACCGA
TGTGTTAACATGATAGCACGTCTCTTCAACGCGCCGCTTGGTGACGGTGAAGCTGCCGTTGGTGTTGGC
ACCGTCGGATCGTCGGAGGCGATTATGTTGGCCGGTTTGGCTTTTAAGAGACAATGGCAGAATAAGCGT
AAGGCCCAAGGGCTTCCTTATGATAAGCCCAATATCGTAACCGGTGCTAATGTCCAGGTAAACCAAAAC
AAAAATTGATGAAATATTAACCAAGACAAAATTGAATTTATCAATCCGGTTAAGTTAATATGTGTGACTC
AATTTCCGGTTCAATACAGGTTTGCTGGGAGAAATTCGCAAGGTATTTCGAAGTGGAGCTTAAGGAAGT
GAACCTAAGAGAAGACTATTACGTGATGGACCCTGTAAAGGCGGTCGAAATGGTAGACGAAAACAAAT
TTGTGTCGCTGCCATCCTCGGTTCAACGTTAACCGGTGAATTCGAAGACGTTAAGCTCCTCAACGACCT
CCTTGTCGAGAAAAACAAGCAAACCGGGTAATTAAACCAAACCGAGAAACAAGCTAATATCGATTGTAA
TCGGTTTGGAGTCCGGTTTTAACGTTCTAAAACACAATTTGCAGATGGGACACGCCAATACACGTGGAC
GCAGCGAGTGGTGGGTTTATTGCTCCGTTCTTGTATCCGGAGCTGGAGTGGGATTTCCGGCTACCGTTG
GTTAAGTATTAATGTGAGTGGTCACAAATACGGTTTGGTTTACGCCGGTATTGGTTGGGTTGTATGG
AGAACCAAAACCGATTTGCCTGATGAACTTATCTTCCATATCAATTATCTTGGCGCTGATCAACCAACC
TTTACACTCAACTTCTCCAAAGGTACATTACCATAAGTCCATAACATATATAACTTCAATAATATTTT
TGGTGTATGGAATTGTTTTATAGACTAAACATTTGATAATGCTTGTATAAACCAGGTTCAAGTCAAGTG
ATTGCTCAGTACTACATGACTAGTTTTGGTATTGTGTGATTAATAATGTTTTTCTTGTTTTTATTTAGGGT
TACCAAATGGTCAATAAAGAAACTAGAATGTATTATATTTAAGTTGTTACTTGTTACTATACTTTGAAT
TAAACGTTCCTAACATGACTAGTTTTGGTATTGTGTGATTAATAATGTTTTTCTTGTTTTTATTTAGGGT
TATCGCAATGTGATGGATAATTGTCGGGAAAACATGATGGTACTAAGACAAGGATTAGAGAAAACGGGA
CGTTTTAAAATCGTCTCCAAAGAAAACGGTGTTCCGTTAGTGGCGTTTTCTCTCAAAGATAGTAGCCGC
CACAACGAGTTCGAGGTGGCCCATACACTCCGTCGCTTCGGCTGGATCGTTCCGGCCTACACGATGCCT
GCGGATGCGCAGCATGTCACTGTCCTTCGAGTTGTTATCCGACAAGATTTCTCTCGAACCTTAGCCGAG
AGATTGGTAGCTGATTTCGAGAAGGTTCTACACGAGCTCGATACGCTTCCCGCGAGGGTTCACGCCAAG
ATGGCTAGTGGAAAAGTTAACGGTGTTAAGAAGACGCCAGAGGAGACGCAGAGAAGTCACGGCCTAC
TGGAAGAAGTTGTTGGAGACTAAGAAGACCAACAAGAACCACAATTTGCTAA

SEQ 8: Arabidopsis thaliana GAD4

MVLSKTVSESDVSIHSTFASRYVRNSLPRFEMPENSIPKEAAYQIINDELMLDGNPRLNLASFVTTWME
PECDKLMMESINKNYVDMDEYPVTTELQNRCVNMIARLFNAPLGDGEAAVGVGTVGSSEAIMLAGLAPK
RQWQNKRKAQGLPYDKPNIVTGANVQVCWEKFARYFEVELKEVNLREDYYVMDPVKAVEMVDENTICVA
AILGSTLTGEFEDVKLLNDLLVEKNKQTGWDTPIHVDAASGGFIAPFLYPELEWDFRLPLVKSINVSGH
KYGLVYAGIGWVVWRTKTDLPDELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGFEGYRNVMD
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NCRENMMVLRQGLEKTGRFKIVSKENGVPLVAFSLKDSSRHNEFEVAHTLRRFGWIVPAYTMPADAQHV
TVLRVVIREDFSRTLAERLVADFEKVLHELDTLPARVHAKMANGKVNGVKKTPEETQREVTAYWKKLLE
TKKKTNKNTIC
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SEQ 9: *Arabidopsis thaliana GAD5*

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ATGGTACTCGCAACCAACTCTGACTCCGACGAGCATTTGCATTCCACTTTTGCTTCTAGATATGTCCGT
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ATATATTTAATTATTTATGTATCTGTTTGCATATATTGAAACAGGTTCAAGATGCCTGACCATTGCATG
CCCAAAGATGCTGCTTATCAAGTGATCAATGATGAGTTGATGCTTGATGGTAATCCCAGGCTTAACCTA
GCCTCCTTTGTCACCACTTGGATGGAACCTGAGTGTGACAAACTCATCATGGATTCTGTCAATAAGAAC
TATGTTGATATGGATGAATATCCTGTCACCACTGAGCTCCAGGTTCCTCCTTCTTTCCTCTCATTCTCT
CTCTCATCTACTTTCCACTGTTTTGTCATAGACTCATACATCTTTTATCTGGCTTATTTTTCAGAACCG
GTGTGTAAAATATGATAGCAAACTTGTTCCATGCTCCCGTTGGAGAAGACGAGGCTGCTATTGGGTGTGG
AACTGTTGGTTCATCTGAGGCTATAATGCTTGCTGGTTTGGCTTTCAAAAGGAAATGGCAACATAGGAG
AAAAGCTCAGGGTCTACCTATTGATAAGCCTAACATTGTCACTGGAGCCAATGTTCAGGTCTAAAATAT
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ACATTTTCAAACTTTGTTTCATCCGCTCAGGTGTGCTGGGAGAAGTTTGCAAGGTACTTTGAGGTAGAG
CTCAAAGAGGTGAAACTAAGTGAAGACTACTATGTTATGGATCCAGCTAAAGCTGTAGAGATGGTGGAT
GAGAATACCATCTGTGTTGCAGCAATTCTAGGATCCACACTTACTGGAGAGTTTGAGGACGTTAAGCAA
TTGAACGATCCTCTAGCTGAGAAAAACGCAGAGACAGGATGGGAAACTCCTATTCATGTTGATGCAGCC
AGTGGAGGATTCATTGCTCCTTTCCTCTACCCTGATCTTGAATGGGACTTTAGGCTTCCATGGGTGAAG
AGTATTAACGTCAGTGGTCACAAGTATGGACTTGTGTATGCAGGAGTTGGTTGGGTTGTCTGGAGAACA
AAAGATGATTTGGCCAGAGGAACTTGTCTTCCACATCAACTACTTGGGAGCTGATCAACCCACTTTCACT
CTCAACTTCTCAAAAGGTTTGTAAAATAAAAACTGGCTTTTATCCAATCAAATCCATCATCACATTTCCT
TTAAGAAACTCAATGTTTCTTTTGCAGGGTCGAGCCAAATCATTTGCTCAGTACTATCAGTTTATCCGA
CTAGGCTTTGAGGTACTTGTTCCCTTATCTGCATTACAGTTTCATTTTTTTCATCTTGCTTAATCTAATG
ATTCTTTTTGGAAACTGGAAAAGGGATACAAGAACATAATGGAAAACTGCATGGATAACGCCAAGGAGGC
TAAGAGAAGGAATAGAGATGACAGGGAAGTTCAACATTGTGTCCAAAGATATTGGCGTGCCACTAGTGG
CATTCTCTCTCAAAGACAGTAGCAAGCACACGGTGTTTGAGATCGCAGAGTCTTTGAGAAAATTCGGGT
GGATCATACCGGCTTACACTATGCCTGCAGATGCACAGCACATTGCTGTGCTCAGAGTTGTGATAAGAG
AAGACTTTAGCCGAGGCCTTGCAGATAGACTCATCACACATATCATTCAGGTGCTGAAAGAGATTGAAG
GGCTTCCTAGCAGGATTGCACATCTTGCTGCGGCTGCAGCGGTTAGTGGTGATGATGAAGAAGTTAAAG
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ATATTGTCTGCTAA
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SEQ 10: *Arabidopsis thaliana GAD5*

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MVLATNSDSDEHLHSTFASRYVRAVVPRFKMPDHCMPKDAAYQVINDELMLDGNPRLNLASFVTTWMEP
ECDKLIMDSVNKNYVDMDEYPVTTELQNRCVNMIANLFHAPVGEDEAAIGCGTVGSSEAIMLAGLAFKR
KWQHRRKAQGLPIDKPNIVTGANVQVCWEKFARYFEVELKEVKLSEDYYVVMDPAKAVEMVDENTICVAA
ILGSTLTGEFEDVKQLNDLLAEKNAETGWETPIHVDASGGFIAPFLYPDLEWDFRLPWVKSINVSGHK
YGLVYAGVGWVVWRTKDDLPEELVFHINYLGADQPTFTLNFSKGSSQIIAQYYQFIRLGFEGYKNIMEN
CMDNARRLREGIEMTGKFNIVSKDIGVPLVAFSLKDSSKHTVPEIAESLRKFGWIIPAYTMPADAQHIA
VLRVVIREDFSRGLADRLITHIIQVLKEIEGLPSRIAHLAAAAAVSGDDEEVKVKTAKMSLEDITKYWK
RLVEHKRNIVC
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SEQ 11: Tobacco *NtGAD1*

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1    aaaatatctc catttctcc  cttgttttag tctctgatct tctccgtcgt actaccaca
61   ctacgccgcc atggttctgt ccaagacagc gtcggaaagt gacgtctcca tccactccac
121  tttcgcttcc cgatatgttc gtacttctct tccgaggttt aagatgccag agaattcgat
181  accaaaggaa gcagcatatc aaatcataaa tgatgagctt atgttagatg gaaatccaag
241  actaaattta gcatcttttg tgacaacatg gatggaacca gagtgtaaca aactgatgat
301  ggattccatt aacaagaatt acgttgacat ggatgaatac cctgtaacca ctgaacttca
361  gaatcgatgt gtaaacatga tagctcattt gtttaacgca ccacttggag atggagagac
421  tgcagtttgga gttggaactg ttggatcctc tgaggctatt atgcttgctg gattagcttt
481  caagagaaaa tggcaaaata aaatgaaagc ccaaggcaag ccctgtgaca agccccaatat
541  tgtcactggt gccaatgtcc aggtgtgttg ggagaaattt gcaaggtatt ttgaagtgga
601  gctaaaggaa gtaaagttga gtgatggata ctatgtgatg gaccctgaga aagctgtgga
661  aatggtggat gagaacacaa tttgtgtagc tgctatcctg ggttccacac tcaatggtga
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721   atttgaagat gttaagcgct tgaatgacct cttgattgag aagaacaaag aaaccgggtg
781   ggacactcca attcatgtgg atgcagcaag tggtggattt attgcaccat tccttatcc
841   agagcttgaa tgggacttta gattgccatt ggtgaagagt ataaacgtga gtggtcacaa
901   atatgtgctt gtttatgctg gtattggttg ggccatttgg aggaataagg aagacttacc
961   tgacgaactt atcttccaca ttaattatct tggtgctgat caacctactt tcactctcaa
1021  cttctctaaa ggttctagcc aagtaattgc tcaatattac caacttattc gcttgggttt
1081  tgagggttac aagaatgtta tggagaattg tcaagaaaat gcaagggtac taagagaagg
1141  acttgaaaaa ggtggaagat tcaacataat atccaaagaa attggagttc cattagtagc
1201  tttctctctt aaagcaaaca gtcaacacaa tgagttcgaa atttctgaaa ctcttagaag
1261  atttggatgg attattcctg catatactat gccaccaaat gctcaacatg tcacagttct
1321  cagagttgtc attagagaag atttctcccg tacactcgcc gagcgactgg taatagacat
1381  tgaaaaagtc ctccacgagc tagacacact tccggccgag gtcaacgcta agctagccgt
1441  ggccgaggcg aatggcagcg gcgtgcataa gaaaacagat agagaagtgc agcttgagat
1501  tactactgca tggaagaaat ttgttgctga taagaagaag aagactaacg gagtttgtta
1561  atttaattta acaaaatatg tttataatta atatgatgat ttataactac tagcagtggt
1621  actgcttgtt tttatatttg aattgttggg ttttttgagt atgaggagct agctatttat
1681  tgctagtgaa atattggttg aaaaa
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SEQ 12: Tobacco NtGAD1

MVLSKTASESDVSIHSTFASRYVRTSLPRFKMPENSIPKEAAYQIINDELMLDGNPRLNLASFVTTWME
PECNKLMMDSINKNYVDMDEYPVTTELQNRCVNMIAHLFNAPLGDGETAVGVGTVGSSEAIMLAGLAFK
RKWQNKMKAQGKPCDKPNIVTGANVQVCWEKFARYFEVELKEVKLSDGYYVMDPEKAVEMVDENTICVA
AILGSTLNGEFEDVKRLNDLLIEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRLPLVKSINVSGH
KYGLVYAGIGWAIWRNKEDLPDELIFHINYLGADQPTFTLNFSKGSSQVIAQYYQLIRLGFEGYKNVME
NCQENARVLREGLEKSGRFNIISKEIGVPLVAFSLKDNSQHNEFEISETLRRFGWIIPAYTMPPNAQHV
TVLRVVIREDFSRTLAERLVIDIEKVLHELDTLPARVNAKLAVAEANGSGVHKKTDREVQLEITTAWKK
FVADKKKKTNGVC

SEQ 13: Tobacco NtGAD2

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1     tatttcatt ttctctcctg ttttaatttc tgatcttctc cgtcgtacta ccaccactac
61    gccgccatgg ttctgtccaa gacagcgtcg gaaagtgacg tctccgttca ctccacttc
121   gcctcccgat atgttcgaac ttctcttccc aggtttaaaa tgccagagaa ttcaatacca
181   aaggaagcag catatcagat tataaatgat gagcttatgt tagatggaaa tccaaggcta
241   aatttagcat ctttcgttac aacatggatg gagccagaat gtaatacgtt aatgatggat
301   tccattaaca ggaactacgt tgacatggat gaataccctg taaccactga gcttcagaat
361   cgatgtgtaa atatgatagc tcatttgttt aatgcaccac ttggagatgg agagactgca
421   gttggagttg gaactgttgg atcctctgaa gctattatgc ttgctggatt agcctttaag
481   agaaaatggc aaaataaaat gaaagcccaa ggcaagccct ttgataagcc caatattgtc
541   accggtgcta atgtccaggt gtgttgggag aaatttgcaa ggtattttga atggagttg
601   aaagaagtaa aattgagtga tggatactat gtgatggacc ctgagaaagc tgtggaaaatg
661   gtggatgaga ataccatttg tgttgctgct atcttaggtt caacactcaa tggtgaattt
721   gaagatgtca agcgtttgaa tgaccttttg attgagagaa acaaagaaac cgggtgggac
781   actccaattc atgtggatgc agcaagtggt ggattattg caccattcct ttatccagag
841   cttgaatggg actttagatt gccattggag aagagtatta atgtgagtgg tcacaaatat
901   ggtcttgtct atgctggtat tggttgggcc atttggagga ataaggaaga cttgcctgat
961   gaacttattt cccacatcaa ttaccttggt gctgatcaac ctacttttca ctctcaacttc
1021  tctaaaggtt ctagccaagt aattgtcaa tattaccaac ttattcgctt gggttttgag
1081  ggttacaaga atgtttatga gaattgtcaa gaaaatgcaa gggtattaag agaaggaatt
1141  gaaaaaagtg gaagattcaa cataatctcc aaagaaattg gagttcccatt agtagcatttt
1201  tctcttaaag acaacagtca acacaatgag ttcgaaattt ctgaaatct taagaagattt
1261  ggatggattc ttctggcata tactatgcca ccaaatgctc aacatgtcac agttctcaga
1321  gttgtcatta gagaagattt ctcccgcaca ctagccggag gactggtaat agacattgaa
1381  aaagtcttctc acggagtgaga cacacttccg tcggagggtca acgctaagct agccgtggcc
1441  gaggcgaatg gcagcggcgt gcataagaaa acagatagag aagtgcagct tgagattact
1501  actgcatgga agaaatttgt tgctgataag aagaagaaga ctaatggagt tgttaattt
1561  aatttaacaa aaaaaagtt tataatatgg tgatttatgt aactactagc agtcgtactg
1621  cttgttttt atatttgatt tgatgtgttt tttgacact tgaggagcta gctagttatt
1681  gctagtgaaa aattggatga tatatttttgg actactttgt aagtttgtat tattaatcca
1741  aattaaacga tatttatcat aaaaaaaaa a
```

5

SEQ 14: Tobacco NtGAD2

MVLSKTASESDVSVHSTFASRYVRTSLPRFKMPENSIPKEAAYQIINDELMLDGNPRLNLASFVTTWME
PECNTLMMDSINKNYVDMDEYPVTTELQNRCVNMIAHLFNAPLGDGETAVGVGTVGSSEAIMLAGLAFK
RKWQNKMKAQGKPFDKPNIVTGANVQVCWEKFARYFEVELKEVKLSDGYYVMDPEKAVEMVDENTICVA
AILGSTLNGEFEDVKRLNDLLIEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRLPLEKSINVSGH
KYGLVYAGIGWAIWRNKEDLPDELIFHINYLGAQDQPTFTLNFSKGSSQVIAQYYQLIRLGFEGYKNVME
NCQENARVLREGIEKSGRFNIISKEIGVPLVAFSLKDNSQHNEFEISETLRRFGWIVLAYTMPPNAQHV
TVLRVVIREDFSRTLAERLVIDIEKVFHGVDTLPARVNAKLAVAEANGSGVHKKTDREVQLEITTAWLK
FVADKKKKTNGVC

SEQ 15: Petunia *GAD*

1   aaagagtaca aactaatatc cacttaaatt gtatttctcc attttctctc tttatttagt
61   ctgtcataac aatggttcta tcaaagacag tgtcgcagag cgatgtgtcc attcactcca
121   cgtttgcttc tcgatatgtt cgaacttctc ttcccaggtt taaaatgcca gataattcga
181   taccaaaaga agcagcatat cagatcataa atgatgaact gatgttagat ggaaacccaa
241   ggctgaactt ggcttctttt gttacaacat ggatggaacc agagtgtgat aagttgatga
301   tggactctat taacaagaac tatgttgata tggatgaata tcctgttacc actgagcttc
361   agaatcgatg tgtaaacatg atagctcatt tgtttaatgc accacttgaa gatggagaaa
421   ctgcagttgg agttggaact gttggatcct ctgaagccat tatgcttgct ggattagctt
481   tcaagagaaa atggcagaac aaaatgaaag cccaaggcaa acctgtgac aagcccaaca
541   ttgttactgg tgcaaatgtc caggtgtgct gggagaaatt tgcaaggtat tttgaagtgg
601   agctaaagga agtaaagctt agtgaaggat actatgtgat ggaccctgag aaagctgtgg
661   agatggtgga tgaaaacacc atttgtgtag ctgctatctt aggttccacc ctcaatggag
721   aatttgaaga cgttaagcgc ttgaatgatc tcttggtcag gaagaacaaa gaaaccgggt
781   gggacactcc aattcatgtg gatgcagcaa gtggtggatt tattgcaccg ttcatttacc
841   cagagcttga gtgggacttt agattgccat tagtgaagag cattaatgta agtggtcaca
901   aatatggtct tgtctatgct ggtattggtt gggtcgtttg gaggaacaag atgatttgc
961   ctgatgaact tatcttccac attaattatc ttggtgctga tcaacctact ttcactctca
1021 actttctaa   aggttctagc caagtaattg ctcaatatta ccaacttatt cgcttgggtt
1081 atgagggtta caagatgtg   atggagaatt gtcaagaaaa tgcatcggta ctaagagaag
1141 ggctagaaaa gacaggaaga ttcaacataa tctccaaaga aattggagta cctttagtag
1201 cattctctct taaagacaac aggcaacaca acgagttcga gatttctgaa acttaagga
1261 gatttggttg gattgttcct gcatatacta tgccaccaaa cgcacaacac attacagttc
1321 tcagagttgt gatcagagaa gatttctccc gtacgcttgc agaacgactg gtaagagaca
1381 tcgaaaaagt ccttcatgaa cttgacacac tccctgcacg tgtcaatgct aagctcgctg
1441 tggccgagga gcaggcggct gcgaatggca gcgaggtgca taagaaaaca gatgcggagg
1501 tgcagttgga gatgataact gcatggaaga agtttgttga agaaaagaag aagaagacta
1561 atcgagtttg ttaattaatt atattagtgt ttataaatatg atgaatatgg ctattatcat
1621 tggtgactgc ttgttagtat attagctgtg attatcacca atatgagttt ggttttcttg
1681 atttggttct tttcagtact tgaaaagttg ttattgatat tgtaaaattg tactttttaa
1741 ctatttggat tattaatgcc aattttctag tgtacttaat aaaaa

SEQ 16: Petunia GAD

MVLSKTVSQSDVSIHSTFASRYVRTSLPRFKMPDNSIPKEAAYQIINDELMLDGNPRLNLASFVTTWME
PECDKLMMDSINKNYVDMDEYPVTTELQNRCVNMIAHLFNAPLEDGETAVGVGTVGSSEAIMLAGLAFK
RKWQNKMKAQGKPCDKPNIVTGANVQVCWEKFARYFEVELKEVKLSEGYYVMDPEKAVEMVDENTICVA
AILGSTLNGEFEDVKRLNDLLVEKNKETGWDTPIHVDAASGGFIAPFIYPELEWDFRLPLVKSINVSGH
KYGLVYAGIGWVVWRNKDDLPDELIFHINYLGAQDQPTFTLNFSKGSSQVIAQYYQLIRLGYEGYKNVME
NCQENASVLREGLEKTGRFNIISKEIGVPLVAFSLKDNRQHNEFEISETLRRFGWIVPAYTMPPNAQHI
TVLRVVIREDFSRTLAERLVRDIEKVLHELDTLPARVNAKLAVAEEQAAANGSEVHKKTDSEVQLEMIT
AWKKFVEEKKKKTNRVC

SEQ 17: Tomato *GAD*

```
   1    aaaaaatggt gttaacaacg acgtcgataa gagattcaga agagagcttg cactgtacat
  61    ttgcatcaag atatgtacag gaacctttac ctaagttcaa aatgcctaaa aaatccatgc
 121    cgaaagaagc agcttatcag attgtaaacg acgagcttat gttggatggt aacccaggt
 181    tgaatttgac ttcctttgtt agcacatgga tggagcccga gtgcgataag ctcatcatgt
 241    catccattaa taaaaactat gtcgacatgg atgagtatcc tgtcaccact gaacttcaaa
 301    atagatgtgt taacatgtta gcacatcttt tccatgcccc ggttggtgat gatgagactg
 361    cagttggagt tggtacagtg ggttcatcag aggcaataat gcttgctggc cttgctttca
 421    aacgcaaatg gcaatcgaaa agaaaagcaa gaaggcaaacc tttcgataag cctaatatag
 481    tcactggagc taatgtgcag gtctgctggg aaaaatttgc aaggtatttt gaggttgagt
 541    tgaaggaggt gaaactaaaa gaaggatact atgtaatgga ccctgccaaa gcagtagaga
 601    tagtggatga gaatacaata tgtgttgctg caatccttgg ttctactctg actggggagt
 661    ttgaggatgt gaagctccta aacgagctcc ttacaaaaaa gaacaaggaa accggatggg
 721    agacaccgat tcatgtcgat gctgcgagtg gaggatttat tgctcctttc ctctggccag
 781    atcttgaatg ggatttccgt ttgcctcttg tgaaaagtat aaatgtcagc ggtcacaagt
 841    atggccttgt atatgctggt gtcggttggg tgatatggcg gagcaaggaa gacttgcccg
 901    atgaactcgt ctttcatata aactaccttg ggtctgatca gcctacttttt actctcaact
 961    tctctaaagg ttcctatcaa ataattgcac agtattatca gttaataaga cttggctttg
1021    agggttataa gaacgtcatg aagaattgct tatcaaacgc aaaagtacta acagagggaa
1081    tcacaaaaat ggggcggttc gatattgtct ctaaggatgt gggtgttcct gttgtagcat
1141    tttctctcag ggacagcagc aaatatacgg tatttgaagt atctgagcat ctcagaagat
1201    ttggatggat cgtccctgca tacacaatgc caccggatgc tgaacacatt gctgtactgc
1261    gggttgtcat tagagaggat ttcagccaca gcctagctga gacttgtt tctgacattg
1321    agaaaatttc gtcagagttg gacacacagc ctcctcgttt gcccaccaaa gctgtccgtg
1381    tcactgctga ggaagtgcgt gatgacaagg gtgatgggct tcatcatttt cacatggata
1441    ctgtagagac tcagaaagac attatcaaac attggaggaa aatcgcaggg aagaagacca
1501    gcggagtctg ctaggtctgg ccacacttgt tatctgggct ccgcttccat cgccatcctg
1561    tagtatgtat tacgtgtgtt gtttccatct tatgtagtag ttggtactgt aatctgtgta
1621    aatgctttca tgatcttggc tctgtatatg ctaaataagc actgcatttc aagttcctgg
1681    aagtatttat gtatgaatca atcccgggcat aattggtaga atgccctctc tgcgtcatct
1741    ttgaatttca cgtgcaataa tatttgaaat ctacacctat tat
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SEQ 18: Tomato GAD

```
MVLTTTTSIRDSEESLHCTFASRYVQEPLPKFKMPKKSMPKEAAYQIVNDELMLDGNPRLNLASFVSTWM
EPECDKLIMSSINKNYVDMDEYPVTTELQNRCVNMLAHLFHAPVGDDETAVGVGTVGSSEAIMLAGLAF
KRKWQSKRKAEGKPFDKPNIVTGANVQVCWEKFARYFEVELKEVKLKEGYYVMDPAKAVEIVDENTICV
AAILGSTLTGEFEDVKLLNELLTKKNKETGWETPIHVDAASGGFIAPFLWPDLEWDFRLPLVKSINVSG
HKYGLVYAGVGWVIWRSKEDLPDELVFHINYLGSDQPTFTLNFSKGSYQIIAQYYQLIRLGFEGYKNVM
KNCLSNAKVLTEGITKMGRFDIVSKDVGVPVVAFSLRDSSKYTVFEVSEHLRRFGWIVPAYTMPPDAEH
IAVLRVVIREDFSHSLAERLVSDIEKILSELDTQPPRLPTKAVRVTAEEVRDDKGDGLHHFHMDTVETQ
KDIIKHWRKIAGKKTSGVC
```

1) *Arabidopsis thaliana* ecotype Columbia glutamate decarboxylase 1 (GAD1) cDNA

Note: This is nucleic acid SEQ #1 and amino acid SEQ #2

A)   LOCUS   ATU10034
        ACCESSION   U10034
        VERSION   U10034.1 GI:497978
        REFERENCE

AUTHORS   Arazi,T., Baum,G., Snedden,W.A., Shelp,B.J. and Fromm,H.
TITLE   Molecular and biochemical analysis of calmodulin interactions with
the calmodulin-binding domain of plant glutamate decarboxylase
JOURNAL   Plant Physiol. 108 (2), 551-561 (1995)

1. From Arabidopsis genome sequencing project chromosome 5 (ACC#
   AB005238)
   LOCUS   BAB10520
   DEFINITION glutamate decarboxylase 1 (GAD 1) (*Arabidopsis thaliana*)

   ACCESSION BAB10520
   PID   g10177078
   VERSION   BAB10520.1 GI:10177078
   REFERENCE 1 (sites)
   AUTHORS   Sato,S., Kotani,H., Nakamura,Y., Kaneko,T., Asamizu,E.,
   Fukami,M., Miyajima,N. and Tabata,S.
   TITLE   Structural analysis of Arabidopsis thaliana chromosome 5. I.
   Sequence features of the 1.6 Mb regions covered by twenty physically
   assigned P1 clones
   JOURNAL   DNA Res. 4 (3), 215-230 (1997)

2) *Arabidopsis thaliana* ecotype Columbia glutamate decarboxylase 2 (GAD2) cDNA

Note: This is nucleic acid SEQ #3 and amino acid SEQ #4

A)   LOCUS   ATU46665
      ACCESSION U46665
      VERSION   U46665.1 GI:1184959
      REFERENCE
      AUTHORS   Turano,F.J. and Fang,T.K.
      TITLE   Characterization of two glutamate decarboxylase cDNA clones from
      Arabidopsis
      JOURNAL   Plant Physiol. 117 (4), 1411-1421 (1998)

B)   LOCUS   ATU49937
      ACCESSION U49937
      VERSION   U49937.1 GI:1236618
      REFERENCE
      AUTHORS   Zik,M., Arazi,T., Snedden,W.A. and Fromm,H.
      TITLE   Two isoforms of glutamate decarboxylase in Arabidopsis a
      regulated by calcium/calmodulin and differ in organ distribution
      JOURNAL   Plant Mol. Biol. 37 (6), 967-975 (1998)

C)   From Arabidopsis genome sequencing project
      ACCESSION #AC009513
      Part of chromosome # 1
      note="Identical to gb|U46665 glutamate decarboxylase 2 (GAD 2)
      Arabidopsis thaliana. and ESTs gb|W43856, gb|N37724,
      gb|Z34642 and gb|R90491 come from this gene."
      /protein_id="AAF06056.1"
      /db_xref="GI:6227020"

3) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD3) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #5 and amino acid SEQ #6

ACCESSION #AC006532
Part of chromosome #2
/product="putative glutamate decarboxylase"
/protein_id="AAD20093.1"
/db_xref="GI:4406783"

4) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD4) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #7 and amino acid SEQ #8

ACCESSION #AC006532
Part of chromosome #2
/product="putative glutamate decarboxylase"
            /protein_id="AAD20099.1"
            /db_xref="GI:4406789"

5) *Arabidopsis thaliana* ecotype Columbia putative glutamate decarboxylase (putative GAD5) DNA From Arabidopsis genome sequencing project

Note: This is nucleic acid SEQ #9 and amino acid SEQ #10

ACCESSION #AB026646
Part of chromosome #3
/evidence=not_experimental
            /product="glutamate decarboxylase"
            /protein_id="BAB02870.1"
            /db_xref="GI:9294589"

6) Tobacco (*Nicotiana tabacum*) glutamate decarboxylase isozyme 1 (NtGAD1) cDNA

Note: This is nucleic acid SEQ #11 and amino acid SEQ #12

A)   LOCUS   AF020425
        ACCESSION AF020425
        VERSION   AF020425.1 GI:3252855
        REFERENCE
        AUTHORS   Yun,S.J. and Oh,S.H.
        TITLE   Cloning and characterization of a tobacco cDNA encoding
              calcium/calmodulin-dependent glutamate decarboxylase
        JOURNAL Mol. Cells 8 (2), 125-129 (1998)

B)   LOCUS   NTU54774
            ACCESSION U54774
            VERSION   U54774.1 GI:1777920
            REFERENCE
            AUTHORS Dharmasiri,M.A.N., Lu,Y.T. and Harrington,H.M.
            TITLE   Cloning and sequencing of a tobacco cDNA encoding glutamate
                 decarboxylase
            JOURNAL Unpublished

7) Tobacco (*Nicotiana tabacum*) glutamate decarboxylase isozyme 2 (NtGAD2) cDNA

Note: This is nucleic acid SEQ #13 and amino acid SEQ #14

LOCUS   AF020424
ACCESSION AF020424
VERSION   AF020424.1 GI:3252853
REFERENCE 1 (bases 1 to 1771)
AUTHORS Yun,S.J. and Oh,S.H.
TITLE   Cloning and characterization of a tobacco cDNA encoding
        calcium/calmodulin-dependent glutamate decarboxylase
JOURNAL Mol. Cells 8 (2), 125-129 (1998)

8) Petunia (*Petunia hybrida*) glutamate decarboxylase cDNA

Note: This is nucleic acid SEQ #15 and amino acid SEQ #16

   2. LOCUS   PETGADX
        ACCESSION # L16797
        VERSION #   L16797.1 GI:294111
        KEYWORDS   glutamate decarboxylase.
        REFERENCE
        AUTHORS Baum,G., Chen,Y., Arazi,T., Takatsuji,H. and Fromm,H.
        TITLE   A plant glutamate decarboxylase containing a calmodulin binding
             domain: cloning, sequence, and functional analysis
        JOURNAL J. Biol. Chem. 268, 19610-19617 (1993)

B)   LOCUS   PETGLUDECA

            ACCESSION L16977

            VERSION   L16977.1 GI:309679
            REFERENCE
            AUTHORS Baum,G., Chen,Y., Arazi,T., Takatsuji,H. and Fromm,H.
            TITLE   A plant glutamate decarboxylase containing a calmodulin-binding
                domain: cloning sequence and functional analysis
            JOURNAL J. Biol. Chem. (1993)

9) Tomato (*Lycopersicon esculentum*) glutamate decarboxylase-like protein LEGDL cDNA

Note: This is nucleic acid SEQ #17 and amino acid SEQ #18